

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **24CZ-LD5-30-S-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30-S-UNV-L840-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3131.6 lumens
Efficiency: N/A
Efficacy: 144.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

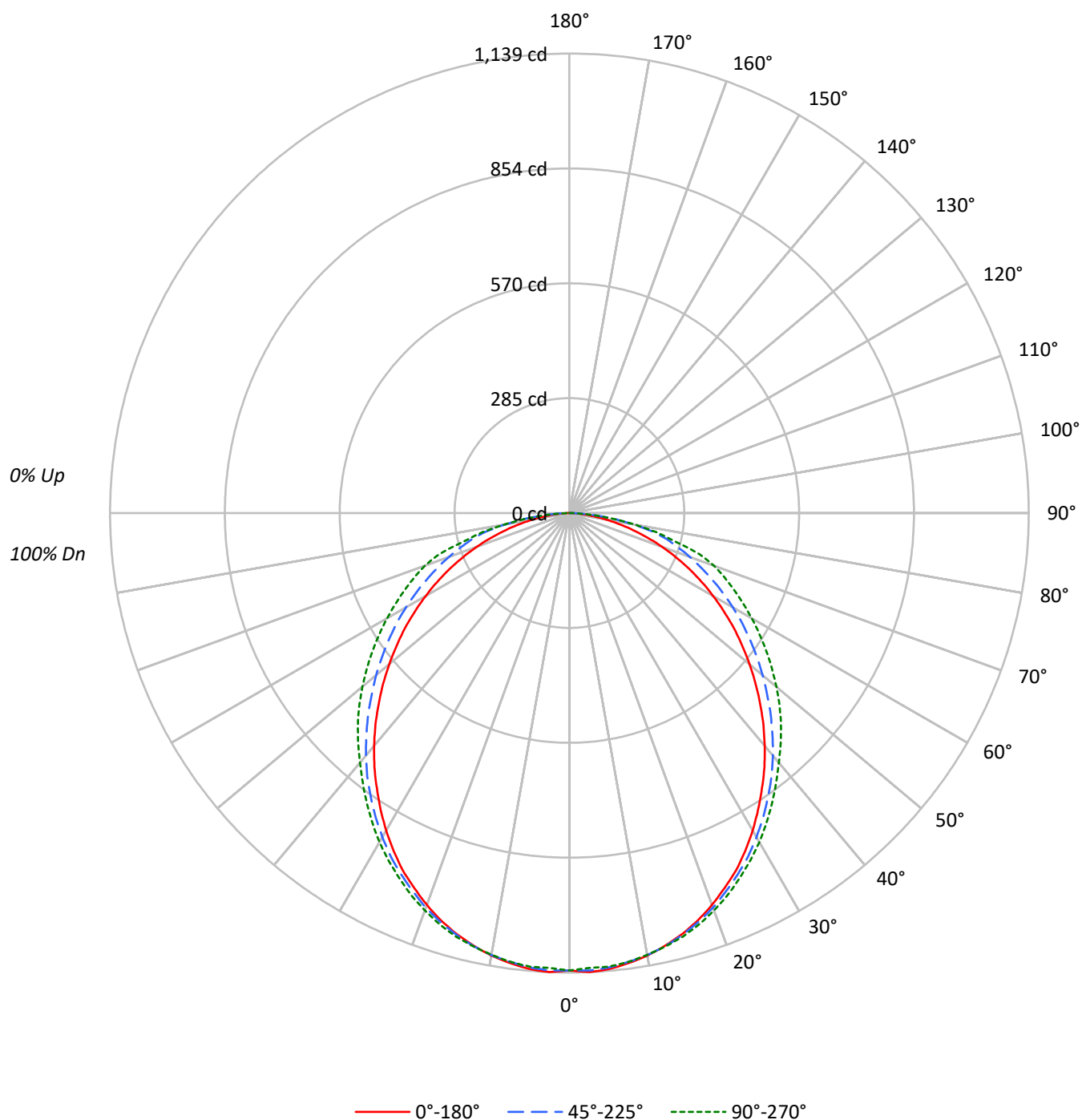
Input Watts (W): 21.62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		50
5	76	63	53	47	73	61	53	47	59	52	46		57	51	45		43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	35		33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1525	1525	1525
5°	1529	1520	1518
10°	1515	1506	1506
15°	1495	1487	1494
20°	1467	1462	1474
25°	1434	1431	1448
30°	1392	1398	1422
35°	1344	1360	1391
40°	1296	1319	1361
45°	1242	1275	1344
50°	1186	1231	1324
55°	1128	1191	1305
60°	1062	1153	1293
65°	989	1117	1294
70°	897	1091	1319
75°	778	1081	1178
80°	622	944	982
85°	413	611	574



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	3.4
10°-20°	304.8	9.7
20°-30°	454.3	14.5
30°-40°	534.8	17.1
40°-50°	543.4	17.4
50°-60°	488.6	15.6
60°-70°	386.0	12.3
70°-80°	244.9	7.8
80°-90°	67.6	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	866.3	27.7
0°-40°	1401.1	44.7
0°-60°	2433.1	77.7
0°-90°	3131.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3131.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1135	1125	1131	1128	1128	108
15°	1081	1075	1083	1086	1087	304
25°	977	976	988	994	998	449
35°	833	838	859	868	876	521
45°	669	678	705	726	742	516
55°	498	511	546	581	596	445
65°	327	344	391	434	450	324
75°	164	192	249	271	269	174
85°	34	59	64	58	58	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1133.7	1133.7	1133.7	1133.7	1133.7
2.5°	1138.9	1130.6	1134.7	1132.7	1128.5
5°	1134.7	1125.4	1130.6	1128.5	1128.5
7.5°	1125.4	1118.1	1122.2	1121.2	1122.2
10°	1113.9	1106.6	1112.9	1112.9	1111.8
12.5°	1098.3	1092.0	1099.3	1099.3	1100.4
15°	1080.6	1075.3	1082.6	1085.8	1086.8
17.5°	1058.7	1053.5	1062.8	1066.0	1069.1
20°	1033.7	1031.6	1041.0	1044.1	1048.3
22.5°	1005.5	1005.5	1014.9	1019.1	1025.3
25°	977.4	976.4	987.8	994.1	998.2
27.5°	944.1	945.1	959.7	965.9	971.1
30°	908.6	910.7	927.4	934.7	942.0
32.5°	871.1	875.3	894.0	902.4	909.7
35°	832.6	837.8	858.6	868.0	876.3
37.5°	794.0	801.3	823.2	832.6	841.9
40°	753.4	759.6	784.6	796.1	807.6
42.5°	711.7	720.0	745.0	761.7	775.2
45°	669.0	678.3	705.4	726.3	741.9
47.5°	626.2	638.7	664.8	692.9	706.5
50°	583.5	596.0	625.2	656.5	670.0
52.5°	539.8	552.3	585.6	617.9	632.5
55°	498.1	510.6	546.0	581.4	596.0
57.5°	454.3	467.9	507.5	543.9	558.5
60°	411.6	425.1	467.9	506.4	522.0
62.5°	369.9	384.5	429.3	469.9	485.6
65°	327.2	343.9	390.8	433.5	450.1
67.5°	285.5	304.3	353.2	398.0	415.8
70°	243.8	265.7	317.8	363.7	381.4
72.5°	203.2	227.2	282.4	328.2	337.6
75°	163.6	191.7	249.0	270.9	268.8
77.5°	126.1	157.3	211.5	215.7	221.9
80°	91.7	126.1	158.4	166.7	162.6
82.5°	60.4	94.8	113.6	109.4	108.4
85°	34.4	59.4	63.6	58.4	58.4
87.5°	14.6	24.0	20.8	15.6	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)